



CBM Guidance



- DoD - CBM Memorandum Dated Nov 03
- DA G-4 - Army CBM Plus Plan Dated Apr 04
- DA G-4 - Aviation White Paper CBM Plus Plan Dated Dec 04
- DA Incorporating into Updated AR 750-1



"CBM will have a dramatic, positive effect in two critical areas: it will reduce the overall maintenance burden to the soldier; and it will increase readiness to the warfighting commander"

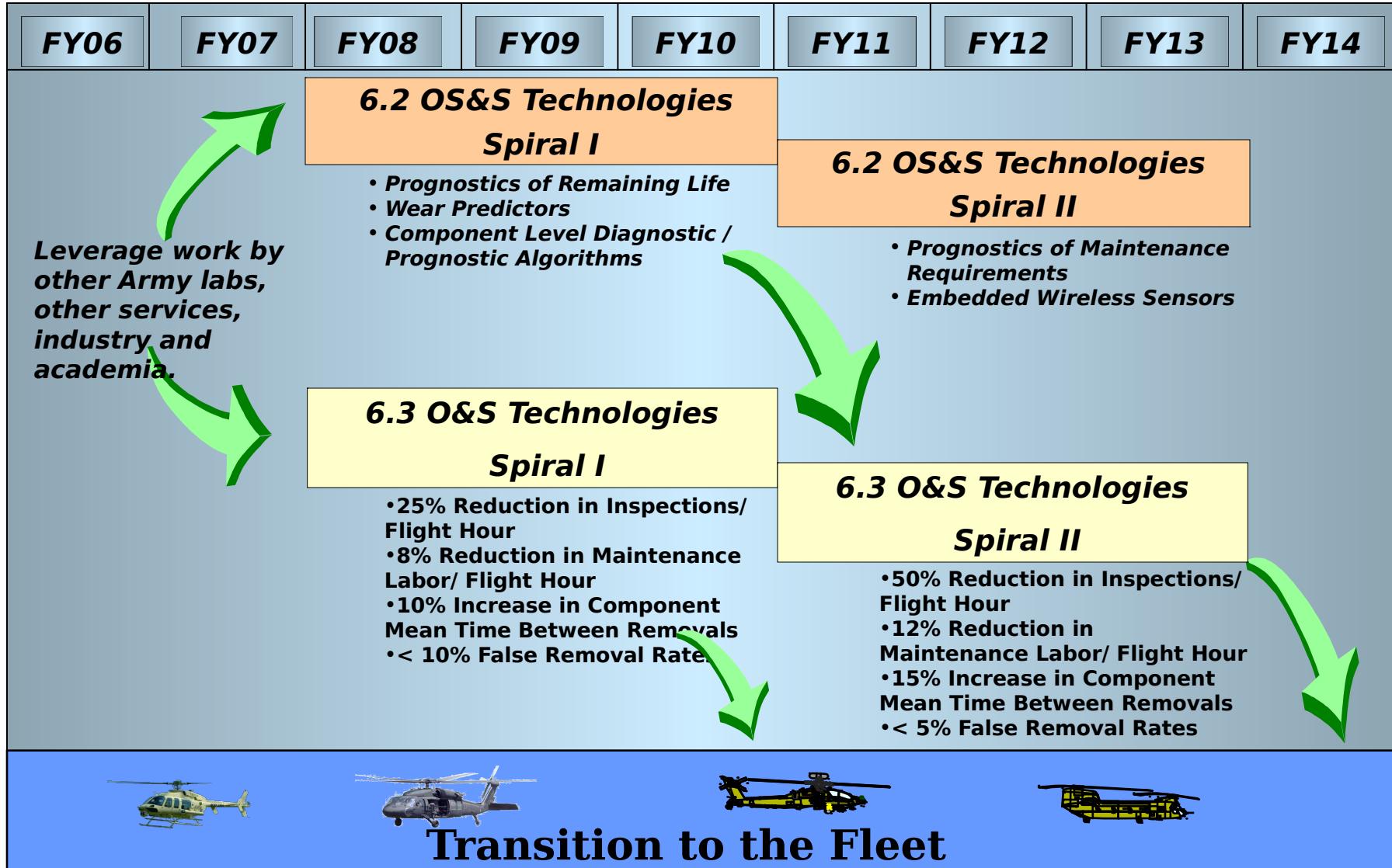
"It is the most important initiative we can undertake after our continuing support to the warfighter."

MG Pillsbury, Commanding General of the U.S. Army Aviation and Missile Command



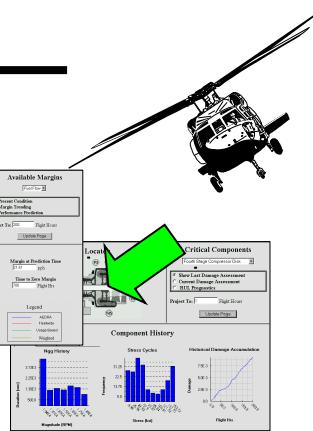
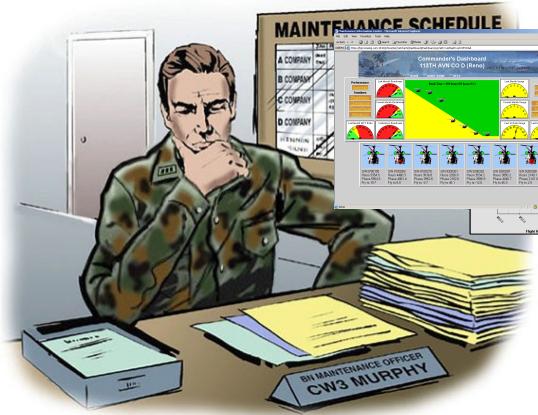
Operations Support & Sustainment

Aviation S&T Area Overview





6.3 Operations Support & Sustainment Technologies



Schedule & Cost

MILESTONES	FY08	FY09
FY10		
Propulsion		
Structures		
Electrical Power/Wiring		
Rotors/Dynamic Components		
Drive Systems		
Flight Controls/Hydraulics		
Rig/Flight Testing		
		TRL 6
	\$4M	\$5M
		\$6M

Program Objective: Provide capability to ...

Provide useful prognostics and system health information to support maintenance and operational decisions

Product:

- System-Level, Prognostic/Diagnostic Algorithms Covering Corrosion, Rotor System, Aircraft Usage, subsystems and Engine Faults/Performance
- Demonstrated embedded/wireless sensors, sensor fusion, system level damage progression and probabilistic models

Impact:

- Improved Availability
- Reduced Maintainer's Workload
- Reduced Inspections
- Convert Unscheduled Maintenance to Planned Maintenance
- Reduced False Removals
- Improved Safety (Reduction in



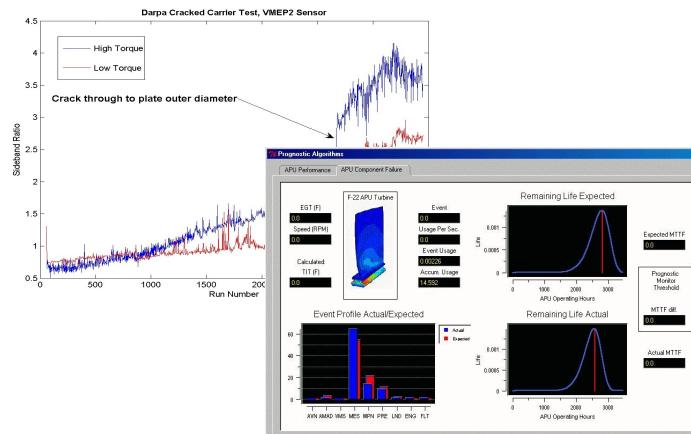
6.3 Operations Support & Sustainment Technologies



- Program Objectives (without increase in safety of flight risk)
 - Reduction of Inspections and Preventative Maintenance
 - Expansion of Serviceability Criteria
 - Extension of Life or Time Between Overhaul
 - Prediction of Failure with Sufficient Fidelity to Allow Scheduling of Maintenance
- Demonstration Metrics (2010)
 - 25% Reduction in Inspections/ Flight Hour
 - 8% Reduction in Maintenance Labor/ Flight Hour
 - 10% Increase in Component Mean Time Between Removals
 - < 10% False Removal Rates



6.2 Operations & Sustainment Technologies





6.2 Operations & Sustainment Technologies



- 6.2 Efforts Support Future 6.3 Demonstration (FY11-13). Future 6.3 Goals Below:
- Program Objectives (without increase in safety of flight risk)
 - Reduction of Inspections and Preventative Maintenance
 - Expansion of Serviceability Criteria
 - Extension of Life or Time Between Overhaul
 - Prediction of Failure with Sufficient Fidelity to Allow Scheduling of Maintenance
- Demonstration Program Metrics (2013)
 - 50% Reduction in Inspections/ Flight Hour
 - 12% Reduction in Maintenance Labor/ Flight Hour
 - 15% Increase in Component Mean Time Between Removals
 - < 5% False Removal Rates